

Serial No. 09/582,256  
Docket No. Brev 12923  
Amendment B Under Rul 116

material by liquid phase epitaxy, and the specific orientation of both said active laser material [100] and the said monocrystalline layer [100] achieves controlled polarization of the laser cavity.

### REMARKS

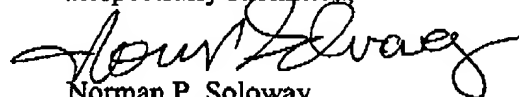
Claim 17 has been further amended to clarify the claim, and finds full support at page 15, lines 1-2 of the original specification.

The foregoing Amendment makes no claim changes as would require further search by the Examiner. All of the claim changes are merely clarifying in nature. Accordingly, entry of the foregoing Amendment, and allowance of the Application are respectfully requested.

Pursuant to 37 CFR § 1.121, a marked copy of the amended claim showing changes made therein accompanies this Amendment.

In the event there are any fee deficiencies or additional fees are payable, please charge them (or credit any overpayment) to our Deposit Account No. 08-1391.

Respectfully submitted,



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### CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this correspondence is being transmitted via facsimile to the United States Patent and Trademark Office, Attn. Examiner Zahn at 703-872-9319 on March 28, 2003 from Tucson, Arizona.

By 

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MARKED COPY OF AMENDED CLAIM

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Marked Amended Claim - Supplemental Amendment B**MARKED CLAIM SHOWING CHANGES MADE:**

17. (Thrice Amended) A laser cavity comprising:

a substrate made of a doped or undoped active laser material  $Y_3Al_5O_{12}$  (YAG) on which a monocrystalline layer of saturable absorbent material made of doped YAG is deposited directly by liquid phase epitaxy, in which said active laser material has a [100] orientation, and said monocrystalline layer of saturable absorbent material is deposited with the same [100] orientation;

an entry mirror; and

an exit mirror;

wherein said doped or undoped active laser material YAG, said monocrystalline layer of saturable absorbent material made of doped YAG deposited directly on said active laser material by liquid phase epitaxy, and the specific [[100]] orientation of both said active laser material [100] and the said monocrystalline layer [100] achieves controlled polarization of the laser cavity.

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MAR 28 2003

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